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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/612,002	07/03/2003	Shih-En Chen	4459-0144P	3384
2292	7590 03/01/2004		EXAM	INER
BIRCH STEWART KOLASCH & BIRCH PO BOX 747			BOUTSIKARIS, LEONIDAS	
FALLS CHURCH, VA 22040-0747			ART UNIT	PAPER NUMBER
			2872	<u> </u>

DATE MAILED: 03/01/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/612,002	CHEN ET AL.			
Office Action Summary	Examiner	Art Unit			
	Leo Boutsikaris	2872			
The MAILING DATE of this communication Period for Reply	on appears on the cover sheet with	h the correspondence address			
A SHORTENED STATUTORY PERIOD FOR F THE MAILING DATE OF THIS COMMUNICAT - Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communicati - If the period for reply specified above is less than thirty (30) days - If NO period for reply is specified above, the maximum statutory - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ION. FR 1.136(a). In no event, however, may a recon. The areply within the statutory minimum of thirty period will apply and will expire SIX (6) MONT attatute, cause the application to become ABA	ply be timely filed (30) days will be considered timely. HS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on	<u>03 July 2003</u> .				
2a) ☐ This action is FINAL . 2b) ⊠	·				
·	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4) ☑ Claim(s) 1-15 is/are pending in the application 4a) Of the above claim(s) is/are with 5) ☐ Claim(s) is/are allowed. 6) ☑ Claim(s) 1-15 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and subjec	thdrawn from consideration.				
Application Papers					
9)☐ The specification is objected to by the Examiner.					
10)⊠ The drawing(s) filed on <u>03 July 2003</u> is/ard	• • •				
. Applicant may not request that any objection t	÷,,	• •			
Replacement drawing sheet(s) including the c	,	, ,			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for fo a) All b) Some * c) None of: 1. Certified copies of the priority docu 2. Certified copies of the priority docu 3. Copies of the certified copies of the application from the International B * See the attached detailed Office action for	ments have been received. ments have been received in Ap e priority documents have been r ureau (PCT Rule 17.2(a)).	oplication No received in this National Stage			
Attachment(s)					
Notice of References Cited (PTO-892)	4) Interview Su				
 Notice of Draftsperson's Patent Drawing Review (PTO-943) Information Disclosure Statement(s) (PTO-1449 or PTO/S Paper No(s)/Mail Date 	·′ 🗖	/Mail Date ormal Patent Application (PTO-152) -·			

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DETAILED ACTION

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 3-5 are rejected under 35 U.S.C. 102(b) as being anticipated by Edlinger (US 6,024,453).

Regarding claim 1, Edlinger discloses a color wheel (Fig. 2a) comprising:

a color filter 12;

a motor having a housing 11 and a motor body 23, the housing being set to a side of central axis of the motor body, and the color filter being set on the housing of the motor; and

a fixing element 24 on which the motor body is fixed, and the fixing element having an outwardly extending holder 3 (lines 35-51, col. 4, and 8-43, col. 5).

Regarding claims 3-4, the fixing element 24 is a fixing plate, which is jointed with the holder 3.

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Regarding claim 5, the color wheel further comprises a cap set on the color filter (lines 9-11, col. 5).

Claims 6-9, 15 are rejected under 35 U.S.C. 102(b) as being anticipated by Acker (4,527,186).

Regarding claim 6, Acker discloses a color wheel (Fig. 1) comprising: a color filter 18;

a motor having a housing 20 and a motor body 21, the housing being set to a side of central axis of the motor body, and the color filter being set on the housing of the motor;

a fixing element 35 on which the motor body is fixed; and an auxiliary fixing element 36 set on the fixing element 35 and having an outwardly extending holder 27 (lines 36-58, col. 7, and 3-22, col. 8).

Regarding claims 7-9, the auxiliary fixing element 36 is jointed with the holder 35 and it is integral with it (line 20, col. 8).

Regarding claim 15, the color wheel further comprises a cap, which is set on the filter (see cap encircling 20 on the exterior side of the color filter 18 (Fig. 1).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Edlinger (US 6,024,453).

Edlinger discloses all the limitations of the above claim except for teaching that the fixing element 24 and the holder 3 are integrally formed. It would have been obvious to one of ordinary skill in the art at the time the invention was made to make fixing element integral with the holder, since it has been held that making in one piece an article which has formerly been formed in multiple pieces involves only routine skill in the art, *In re Larson*, 340 F.2d 965, 968, 144 USPQ 347, 349 (CCPA 1965). One would have been motivated to form an integral fixing element/holder for easier manufacturing as well as better accuracy in aligning the holder 3 supporting a sensor with the oppositely positioned position marker 16.

Claims 10-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Acker (US 4,527,186).

Acker discloses all the limitations of the above claims except for teaching the specific material used for the joining of the fixing element with the auxiliary fixing element i.e., adhering material, solder bonding material, screws or rivets or a combination thereof. It would have been obvious to one of ordinary skill in the art at the time the invention was made to join the above two elements together using one of the claimed materials, since it has been held to be within the ordinary skill of worker in the art to select a known material in the basis of its suitability for the intended use, *Sinclair & Caroll Co. v. Interchemical Corp.*, 325 U.S. 327, 65 USPQ 297 (1945). One would use one of the above materials based on required strength of the bonding, i.e., based

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on the specific size/weight of the motor body. For example, a lighter motor would only require adhesive bonding, whereas a heavier one would require a screws/rivets.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dr. Leo Boutsikaris whose telephone number is 571-272-2308.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Leo Boutsikaris, Ph.D. Patent Examiner, AU 2872 February 16, 2004